

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Cancelled)

2. (Presently Amended) A stator support structure for an electric rotary machine, comprising:

a divided-coil type stator including a plurality of divided stator cores and a plurality of stator coils wound around the stator cores, respectively;

a first rotor disposed inside the divided-coil type stator;

a second rotor disposed outside the divided-coil type stator;

a first stator support member supporting one side of the divided-coil type stator;

a second stator support member supporting the other side of the divided-coil type stator; and

a plurality of positioning projection members which are located between the first and second stator support members,

wherein the divided-coil type stator, and the first and second rotors are rotatably disposed in a concentric relationship to form a three-layer structure, and both distal ends of the respective stator cores are rigidly supported with the first and second stator support members with a given equal distance, and

wherein each of the positioning projection members remains between adjacent stator cores to allow the stator cores to be positioned with the given equal distance, and

wherein each of the positioning projection members is monolithically integral with one of the stator support members.

3. (Original) A stator support structure for an electric rotary machine according to claim 2, wherein each of the positioning projection members has a length extending between the first and second stator support members.

4. (Original) A stator support structure for an electric rotary machine according to claim 2, wherein each of the divided stator cores is press fitted between the adjacent positioning projection members.

5. (Previously Amended) A stator support structure for an electric rotary machine according to claim 2, wherein the stator cores are integrally supported with and coupled to the first and second stator support members by a plurality of fixing pins.

6. (Previously Amended) A stator support structure for an electric rotary machine according to claim 2, wherein the first and second stator support members are made of a material having nonmagnetic and high heat conducting properties.

7. (Previously Amended) A stator support structure for an electric rotary machine according to claim 2, wherein each of the first and second stator support members has a flow passage for passing coolant medium.

8. (Canceled)

9. (Presently Amended) A stator support structure for an electric rotary machine according to claim 2,

wherein the first and second stator support members and the positioning projection members have flow passages to allow coolant medium to flow, and

wherein the flow passages pass through an interior of the positioning projection members in a longitudinal direction of the positioning projection members.

10. (Original) A stator support structure for an electric rotary machine according to claim 2, wherein each of the stator coils is held in tight contact with adjacent surfaces of the first and second stator support members and the adjacent positioning projection members.

11. (Previously Amended) A stator support structure for an electric rotary machine according to claim 2, wherein each of the stator cores has a flow passage formed around fixing bolts for fixing the stator cores, each of the stator cores being treated with a sealing material to form the flow passages for passing a coolant medium.

12. (Original) A stator support structure for an electric rotary machine according to claim 2, wherein each of the stator cores is held in tight contact with the first and second stator support members and the positioning projection members.

13. (Presently Amended) A stator support structure for an electric rotary machine, comprising:

a divided-coil type stator including a plurality of divided stator cores and a plurality of stator coils wound around the stator cores, respectively;
a first rotor disposed inside the divided-coil type stator;
a second rotor disposed outside the divided-coil type stator;
first stator support means for supporting one side of the divided-coil type stator;
second stator support means for supporting the other side of the divided-coil type stator; and

a plurality of positioning projection means which are located between the first and second stator support means,

wherein the divided-coil type stator, and the first and second rotors are rotatably disposed in a concentric relationship to form a three-layer structure, and both distal ends of the respective stator cores are rigidly supported with the first and second stator support means with a given equal distance, and

wherein each of the positioning projection means remains between adjacent stator cores to allow the stator cores to be positioned with the given equal distance, and

wherein each of the positioning projection means is monolithically integral with one of the stator support means.

Claims 14 to 21 (Canceled)

22. (New) A stator support structure for an electric rotary machine according to claim 2, wherein each of the positioning projection members is held in tight contact with the adjacent stator cores along a longitudinal direction of the positioning projection members.

23. (New) A stator support structure for an electric rotary machine, comprising:

a divided-coil type stator including a plurality of divided stator cores and a plurality of stator coils wound around the stator cores, respectively;

a first rotor disposed inside the divided-coil type stator;

a second rotor disposed outside the divided-coil type stator;

a first stator support member supporting one side of the divided-coil type stator;

a second stator support member supporting the other side of the divided-coil type stator; and

a plurality of positioning projection members which are located between the first and second stator support members,

wherein the divided-coil type stator and the first and second rotors are rotatably disposed in a concentric relationship to form a three-layer structure, and both distal ends of the respective stator cores are rigidly supported with the first and second stator support members with a given equal distance,

wherein each of the positioning projection members remains between adjacent stator cores to allow the stator cores to be positioned with the given equal distance, and

wherein each of the positioning projection members is in contact with one of the plurality of divided stator cores.

24. (New) A stator support structure for an electric rotary machine according to claim 23, wherein each of the positioning projection members has a length extending between the first and second stator support members.

25. (New) A stator support structure for an electric rotary machine according to claim 23, wherein each of the divided stator cores is press fitted between the adjacent positioning projection members.

26. (New) A stator support structure for an electric rotary machine according to claim 23, wherein the stator cores are integrally supported with and coupled to the first and second stator support members by a plurality of fixing pins.

27. (New) A stator support structure for an electric rotary machine according to claim 23, wherein the first and second stator support members are made of a material having nonmagnetic and high heat conducting properties.

28. (New) A stator support structure for an electric rotary machine according to claim 23, wherein each of the first and second stator support members has a flow passage for passing coolant medium.

29. (New) A stator support structure for an electric rotary machine according to claim 23,

wherein the first and second stator support members and the positioning projection members have flow passages to allow coolant medium to flow, and

wherein the flow passages pass through an interior of the positioning projection members in a longitudinal direction of the positioning projection members.

30. (New) A stator support structure for an electric rotary machine according to claim 23, wherein each of the stator coils is held in tight contact with adjacent surfaces of the first and second stator support members and the adjacent positioning projection members.

31. (New) A stator support structure for an electric rotary machine according to claim 23, wherein each of the stator cores has a flow passage formed around fixing bolts for fixing the stator cores, each of the stator cores being treated with a sealing material to form the flow passages for passing a coolant medium.